



# MacBook Pro 13" Retina Display Early 2013 Heat Sink Replacement

Replace the Heat Sink in your MacBook Pro 13" Retina Display Early 2013.

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## INTRODUCTION

Use this guide to replace the heat sink.



### TOOLS:

- [MacBook Pro and Air 5-Point Pentalobe Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [T7 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Arctic Silver ArctiClean](#) (1)
- [Arctic Silver Thermal Paste](#) (1)



### PARTS:

- [MacBook Pro 13" Retina Heat Sink](#) (1)

## Step 1 — Lower Case



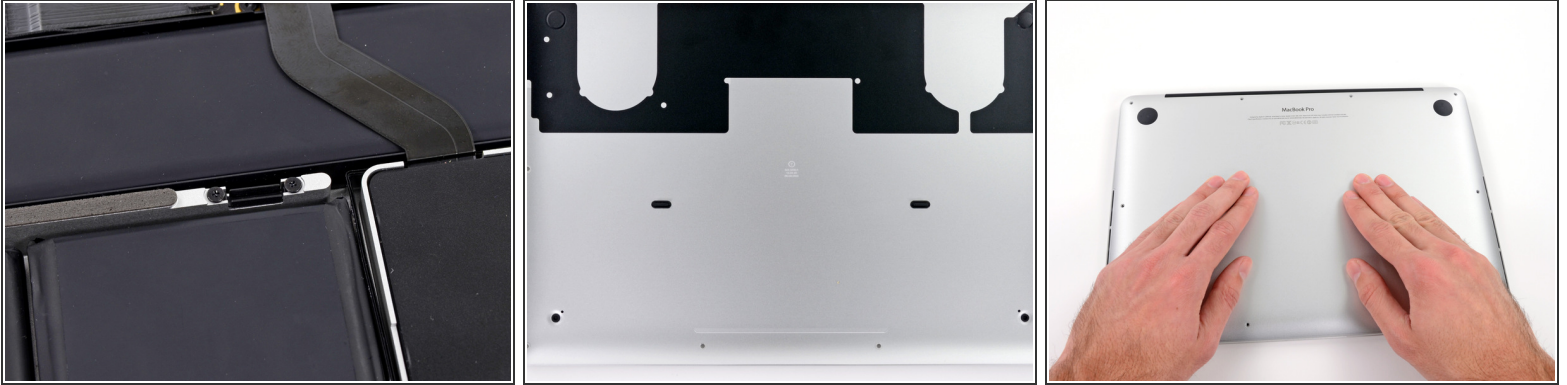
- Remove the following ten screws securing the lower case to the upper case:
  - Two 2.3 mm P5 Pentalobe screws
  - Eight 3.0 mm P5 Pentalobe screws



## Step 2



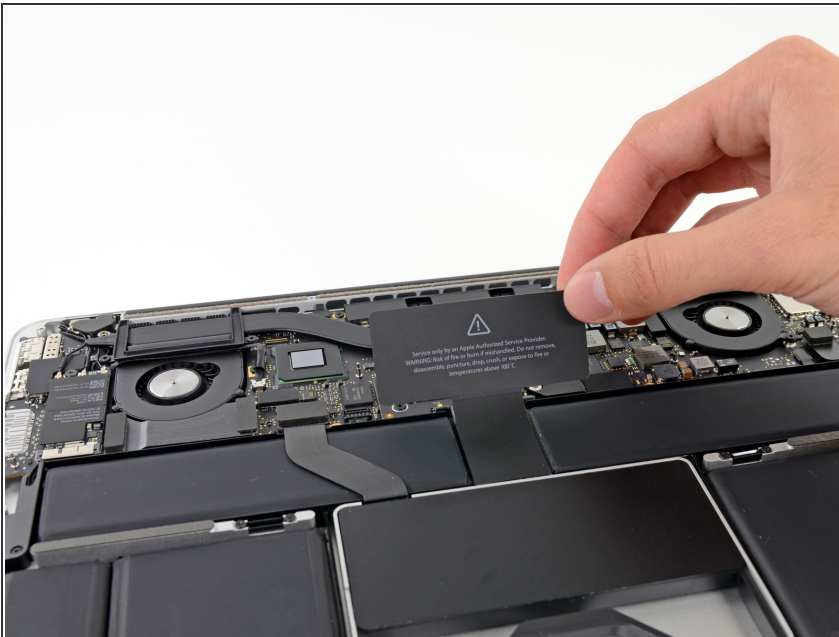
- Wedge your fingers between the upper case and the lower case.
- Gently pull the lower case away from the upper case.
- Remove the lower case and set it aside.

## Step 3



-  The lower case is connected to the upper case at the center, with two plastic clips.
-  During reassembly, gently push down the center of the lower case to reattach the two plastic clips.

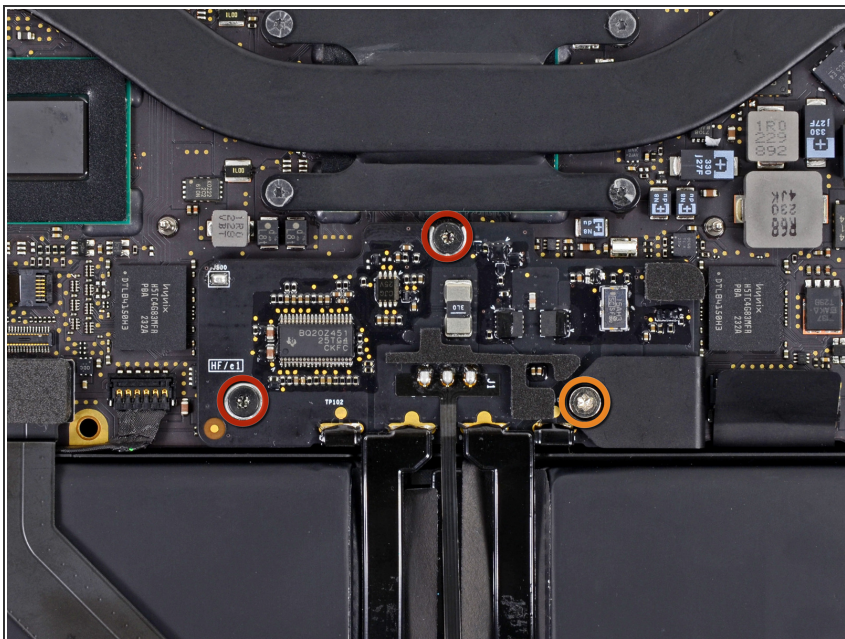
## Step 4 — Battery Connector



- Remove the plastic cover adhered to the battery contact board.

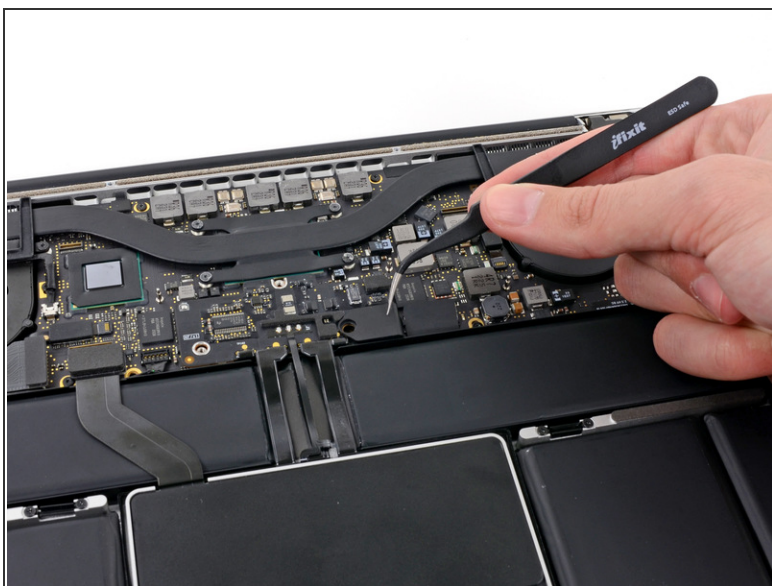


## Step 5



- Remove the following screws securing the battery connector board to the logic board:
  - Two 2.8 mm T6 Torx screws
  - One 7.0 mm T6 Torx shouldered screw

## Step 6



- Use tweezers to remove the small plastic cover located near the bottom right of the battery connector board.

## Step 7



- Remove the wide head 6.4 mm T6 Torx screw securing the battery connector to the logic board assembly.

## Step 8



- Carefully lift the battery connector board up off the logic board.
- It is recommended to bend the battery cables just slightly, to keep the board suspended up above the logic board and out of the way.

⚠ Do not fold the board completely over, or crease the cables, as this may damage the battery.

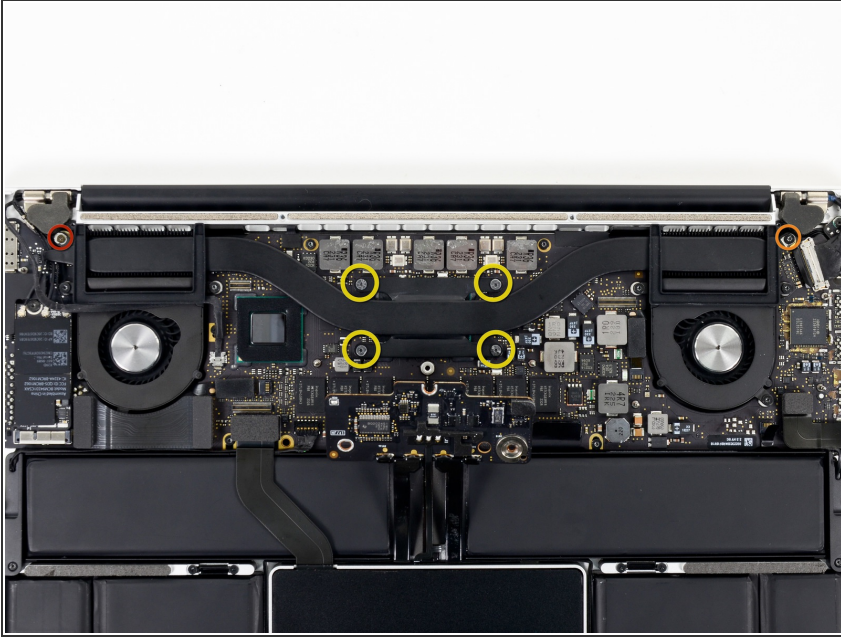


## Step 9 — Battery Contact Board



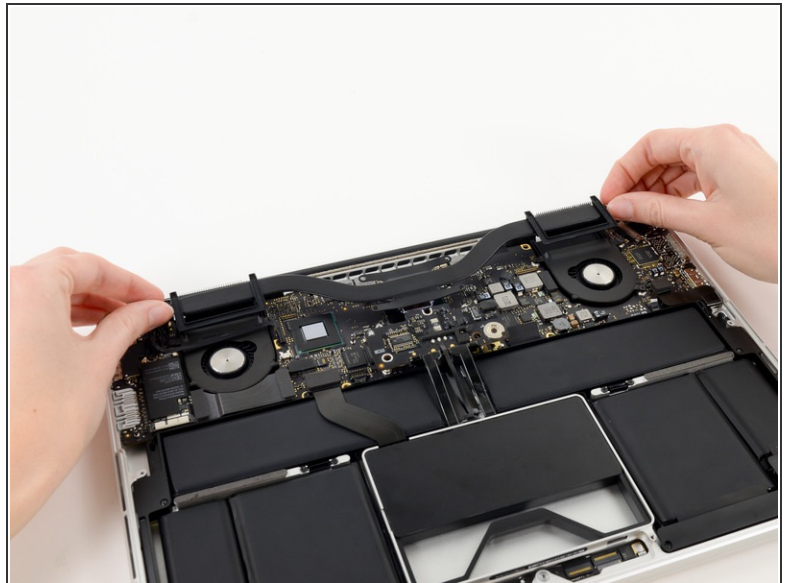
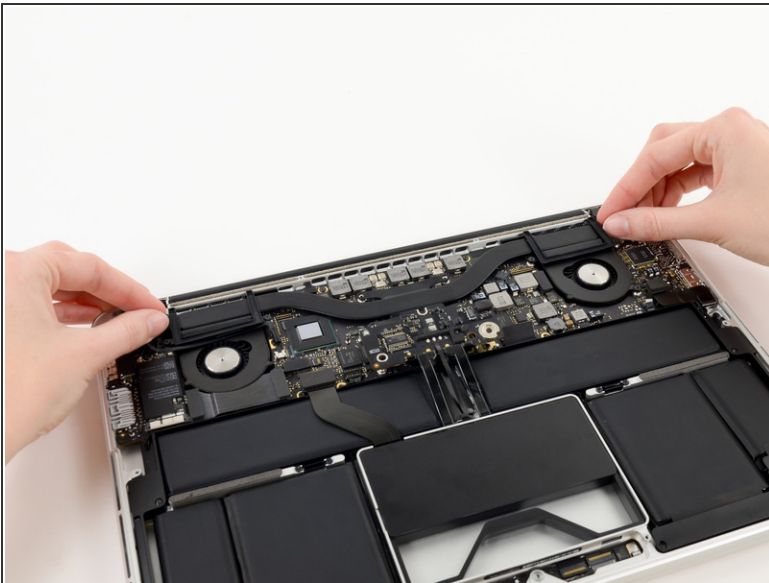
- Grasp the Interposer with tweezers.
  - ⓘ An interposer is the name for an interface that links one electrical connection to another. In this repair, it is the board connecting the battery to logic board.
- Lift the Interposer off the logic board and remove it.
  - ⚠ Removing this board will ensure that the battery remains disconnected throughout your repair, preventing your computer from accidentally powering on. It's also a good idea to take it out so it doesn't fall out unexpectedly.

## Step 10 — Heat Sink Assembly



- Remove the following screws securing the heat sink to the logic board assembly:
  - One 2.4 mm Phillips #00 screw
  - One 3.4 mm T5 Torx screw
  - Four 2.7 mm T5 Torx screws

## Step 11

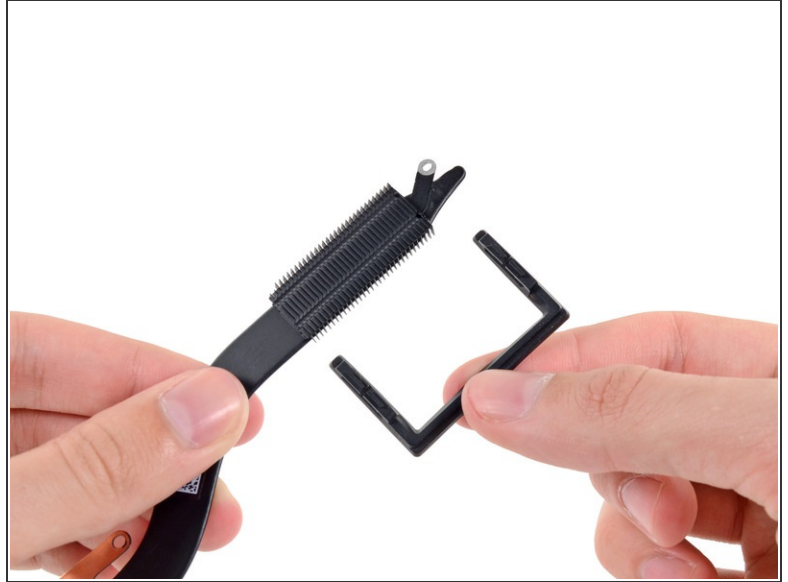


- Lift and remove the heat sink up off the logic board assembly.

⚠ When reinstalling the heat sink, be sure to apply a new layer of [thermal paste](#). If you have never applied thermal paste before, we have a [guide](#) that makes it easy.



## Step 12 — Right Fan Duct



- Carefully remove the right fan duct from the edge of the heat sink.

## Step 13 — Left Fan Duct



- Carefully remove the left fan duct from the edge of the heat sink.

## Step 14 — Heat Sink



- Heat sink remains.

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To reassemble your device, follow these instructions in reverse order.

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